

FIGULEVSKIY, G.V.; BOROVKOV, A.V.

Sesquiterpenes of the essential oil of the fruits of *Libanotis transcaucasica* Schischk growing in the Stavropol Territory.
Zhur. prikl. khim. 36 no.4:926-928 Ap '63. (MIRA 16:7)

(Stavropol Territory--Essences and essential oils)
(Sesquiterpenes)

FIGULEVSKIY, G.V.; BOROVKOV, A.V.

Sesquiterpenes of the essential oil of the fruits of *Libanotis*
transcaucasica Schischk (Golubozersk form, introduced). Zhur.
prikl. khim. 36 no.4:929-930 Ap '63. (MIRA 16:7)

(Essences and essential oils)
(Sesquiterpenes)

KURANOVA, I.L.; SHENIN, Yu.D.; FIOLEVSKIY, G.V. [deceased]

Oxides of higher fatty unsaturated acids. Part 6: Interaction of
oxides of petroselinic and petroselaic acid methyl esters with
acetic acid. Zhur. ob. khim. 34 no.10:3487-3493 1964. (MIRA 17:11)

1. Leningradskiy gosudarstvennyy universitet.

FIGULEVSKIY, G.V. [deceased]; KONTSEVOY, I.I.

Reaction of sabinene with ...
Zhur. ob. khim. 35 no. 2: 188-189, 1961.

1. Leningradskiy gosudarstvennyy ...

PIGULEVSKIY, G. [deceased]

Third International Congress on Essential Oils. Part. res.
1 no.1:152-153 '65. (MIRA 18:6)

1. Botanicheskiy institut im. V.I. Komarova AN SSSR, Leningrad.

MOSEVICH, G.V. (deceased) (Leningrad); KOVALEVA, V.I. (Leningrad);
MOTSEKUS, D.V. (Leningrad);

Study of essential oils derived from the fruit of wild carrot
(Daucus carota L.) collected in various regions. East. Eur.
no. 2-227-230 '65. (MIRA 13:1)

DRANITSYNA, Yu.A.; KERIMOV, S.Sh.; PIGULEVSKIY, G.V.

Furocoumarins in fruits of fennel *Hippomarathum microcarpum* (ME'B
Fedtsch. Zhur. prikl. khim. 38 no.5:1172-1174 My '65.
(MIRA 18:11)

1. Botanicheskiy institut AN SSSR.

DRANITSYNA, Yu.A.; FIGULEVSKIY, G.V.; PUKREYEVA, T.V.

Coumarin compounds from fruits of *Artocarpus deccatus* ...
Zhur.prikl.khim. 38 no.11:2570-2575 N 15.

(MIRA 1984)

1. Submitted April 23, 1984.

... of the e ...

STEWART, G.V., prof.

Third International Congress on the History of the
Psychology in the U.S. 1960

~~Pigul'nikov~~
VASIL'YEV, A.V., inzh.; PIGUL'NIKOVSKIY, I.A., starshiy elektromekhanik.

Amplifier for trouble shooting in track circuits. Avton., telem.
i svyaz' 2 no.1:34 Ja '58. (MIRA 11:1)

1. Vereshchaginskaya distantziya signalizatsii i svyazi Sverdlovskoy
dorogi.
(Railroads--Telephone) (Electric circuits)

PIGULEVSKIY, K.
PIGULEVSKIY, K., inzh.

First place in the competition for the best motors in the world.
Tekh.mol. 26 no.2:34 '58. (MIRA 11:2)

1.Sekretar' Vsesoyuznogo trenerskogo soveta po velosipednomu sportu.
(Motorcycles)

BELYY, M.; PIGULEVSKIY, L.

Pushing barges on the Dnieper-Bug Canal and on the Pripet River.
Rech. transp. 22 no.5:45-46 My '63. (MIRA 16:8)

1. Starshiy dispetcher Pinskogo uchastka Verkhne-Dneprovskogo
parokhodstva (for Belyy). 2. Nachal'nik tekhnicheskogo otdela
Pinskogo sudostroitel'nogo i sudoremontnogo zavoda (for
Pigulevskiy).

(Dnieper-Bug Canal--Towing)
(Pripet River--Towing)

FIGULEVSKIY, L.G.; KOVALEVA, V.I.

Essential oil obtained from wild carrot *Daucus carota* L. Zhur.
prikl.khim. 28 no.12:1355-1357 D '55. (MLRA 9:3)
(Essences and essential oils) (Carrots)

FIGULEVSKIY, M. Kh.

Fundamentals and methods of studying the physical and mechanical qualities of soil: supplement to the comparative study of the soils of the Leningrad province. Leningrad, 1936. (Trudy Leningradskogo otleniia Vsesoiuznogo nauchno-issledovatel'skogo instituta udobrenii, agrot-khimi i sroptovby zemli, vyp. 44)

PIGULEVSKIY, N. A.

(DECEASED)

1963/2

c' 1959

GEOLOG

see ILC

BRATIN, Vsevolod Sergeyevich, inzh.; TORGONSKIY, Mikhail Nikolayevich,
dotsent, kand.tekhn.nauk; PIGULEVSKIY, S.V., retsenzent;
D'YAKOVA, Ye.I., retsenzent; ZEYEST, M.B., red.; GORYUNOVA,
L.K., red.izd-va; KUZNETSOVA, A.I., tekhn.red.

[Construction of logging roads and artificial structures]
Stroitel'stvo lesovoznykh dorog i iskusstvennykh sooruzhenii.
Moskva, Goslesbumizdat, 1960. 330 p.

(MIRA 14:4)

(Forest roads)

PIGULEVSKIY, S. V.

PA 165T38

USSR/Medicine - Parasites
Infection, Experimental 11 Feb 50

"Experimental Infection of Man by the Larva of
Gastrophilus Intestinalis," S. V. Pigulevskiy,
Leningrad Sanitation and Hygiene Med Inst

"Dok Ak Nauk SSSR" Vol LIX, No 5, pp 933-936

Studies method of penetration of skin by subject
parasite, histological picture of section of skin
into which larva have penetrated, and subjective
sensation during penetration. Finds that in pro-
cess of penetration into skin and movement there-
after important role is played not only by mouth

165T38

USSR/Medicine - Parasites (Contd) 11 Feb 50

and throat organs but also by cytolytic effect
of salivary secretions. Notes pain and itching
region of larva. Submitted 24 Nov 49 by Acad
I. I. Shryabin.

165T38

PIGULEVSKIY, Sergey Viktorovich; POPOVKIN, Aleksandr Petrovich;
TOVSTOLUZHSKIY, N.I., inzh., retsenzent; GONCHAROV, A.F.,
inzh., retsenzent; KIMMEL', L.S., red.izd-va; GRECHISHCHEVA,
V.I., tekhn. red.

[Construction and maintenance of 750 mm-gauge logging rail-
roads] Ustroistvo i sodержanie lesovoznykh ~~sh~~eleznykh dorog
kolei 750 mm. Moskva, Goslesbumizdat, 1963. 224 p.
(MIRA 17:3)

FIGULEVSKIY, Sergey Vladimirovich, prof.; POGOREKHONOV, Yu.V., red.;
ZENIN, V.V., tekhn. red.

[Pathogenic animals of Daghestan] Patogennye zhiivotnye
Dagestana. Saratov, Izd-vo Saratovskogo univ. Pt.2.
[Poisonous animals] Iadovitye zhiivotnye. 1961. 128 p.

(DAGHESTAN--POISONOUS ANIMALS)

(MIRA 16:6)

PIGULEVSKIY, Sergey Vladimirovich

(Dagestan State Med Inst), Academic Degree of Doctor of Medical Sciences, based on his defense, 11 February 1955, in the Council of the Leningrad Med Inst of Sanitation and Hygiene, of his dissertation entitled: "Classification and historical routes of distribution and philogeny of trematoda of the gorgodend [?]"

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 24, 26 Nov 55, Byulleten' MVO SSSR, No. 20, Oct 57, Moscow, pp 22-24, Uncl. JPRS/NY-471

SHEVCHENKO, A.L., inzh.; FIGULEVSKIY, V.G., inzh.

Installation for securing built up columns during their
erection. Prom. stroi. 41 no.11:46 N '63. (MIRA 17:2)

FIGULEVSKIY, V.G., inzh.

Precast reinforced concrete construction elements of buildings subjected to large dynamic loads. Prom.stroi. 38
no.6:36-39 '60. (MIRA 13:7)

1. Pridneprovskiy Promstroyproyekt.
(Factories—Design and construction)
(Strains and stresses)

PIGULEVSKIY, V.G.

Shortcomings of roofs of industrial buildings with double cantilever
slabs. Prom. stroi. 40 no.2:11-12 '62. (MIRA 15:7)
(Roofing, Concrete)

PIGOROV, V. M.

Pulse electrohydraulic method for controlling the freezing of
pipes in wells. Azerb. neft. khov. 39 no.5:16-17 May '60.
(MIRA 13:10)

(Oil well drilling)

CIA-RDP86-00513R0012408

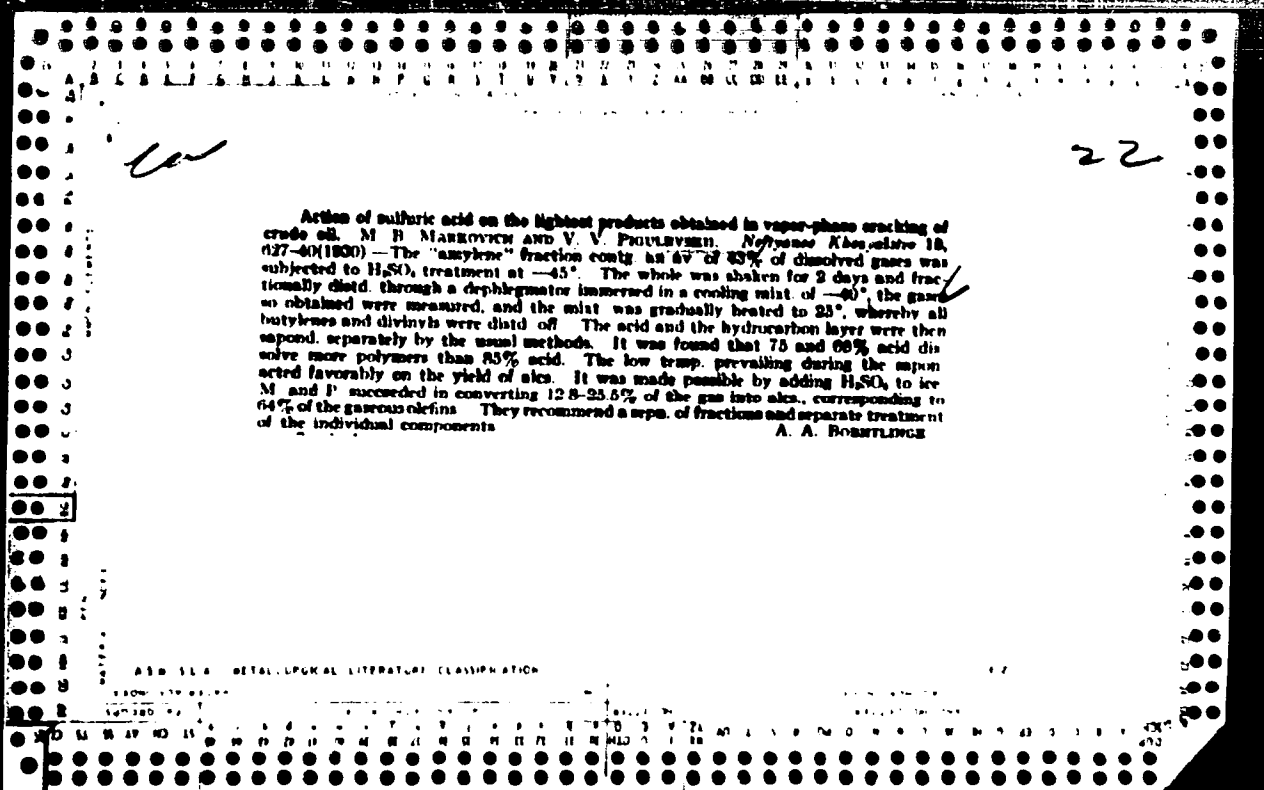


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22

Gases from crude oil cracked in the vapor phase. M. B. MARKOVICH AND V. V. POGORILSKIY, *Nefteyanoe Khimicheskoe Prilozhenie* 18, 425-44 (1930), cf. C A 25, 403. Fuel oil was cracked in the vapor phase and the gas produced was sep'd into 3 fractions: (a) permanent gas, (b) Blau gas, i.e., liquid at 15° under 100 atm pressure and (c) light gasoline. These fractions contained, resp., in % by wt.: H₂, 2.4, 0.2, 0.0; satd. hydrocarbons 49.0, 29.6, 3.0; C₂H₄, 25.2, 17.1, 0.0; C₂H₆, 12, 24.3, 4.0; butylene 2.9, 9.0, 35.0; divinyl 2.0, 6.6, 18.0; vapors of higher unsatd. hydrocarbons 0.0, 2.5, 0.0; N₂, CO₂, O₂, etc., 3.0, 0.4, 0.0. The work was undertaken to det. the possibility of using cracked gas in the manufact. of synthetic chem. compounds to replace natural fats, for prepn. glycols, perfumes, etc.

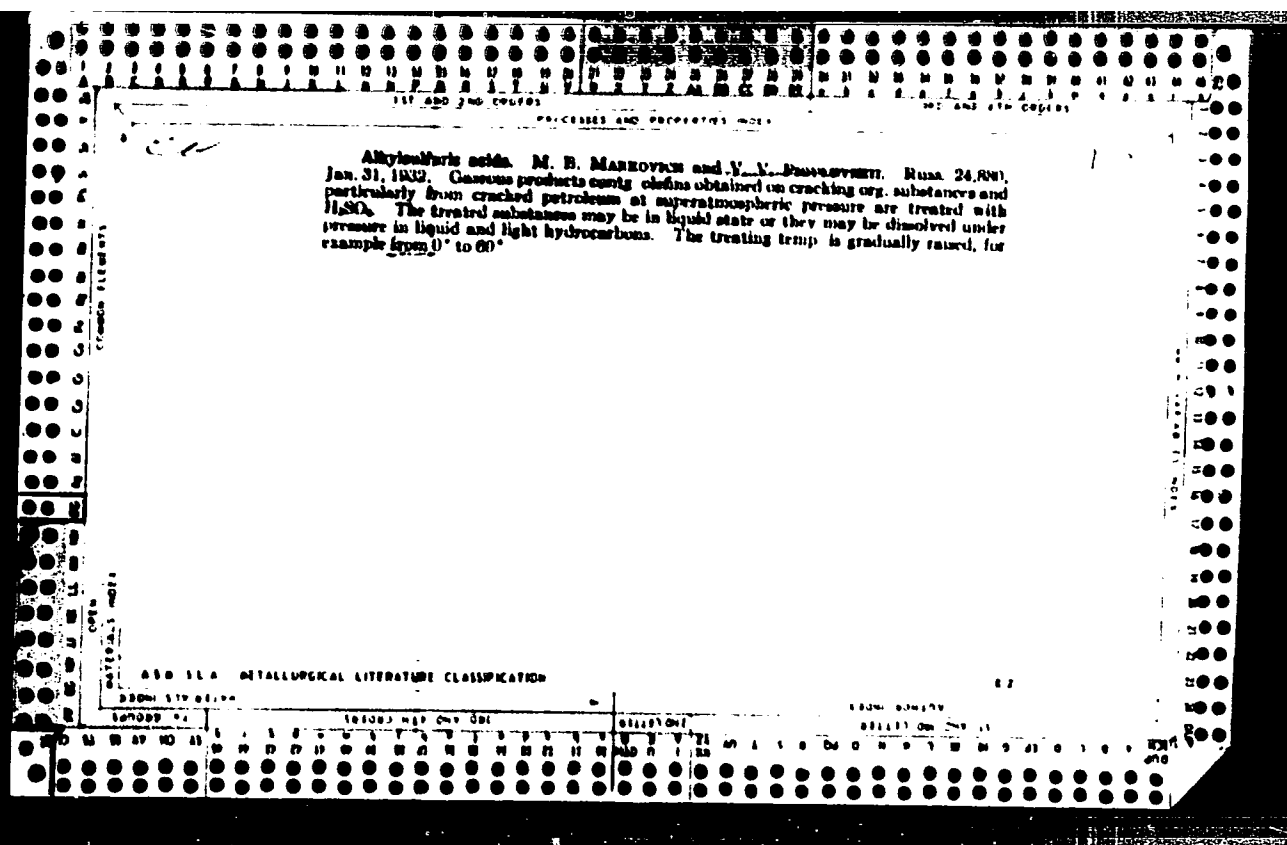
A. A. ROSENBLING

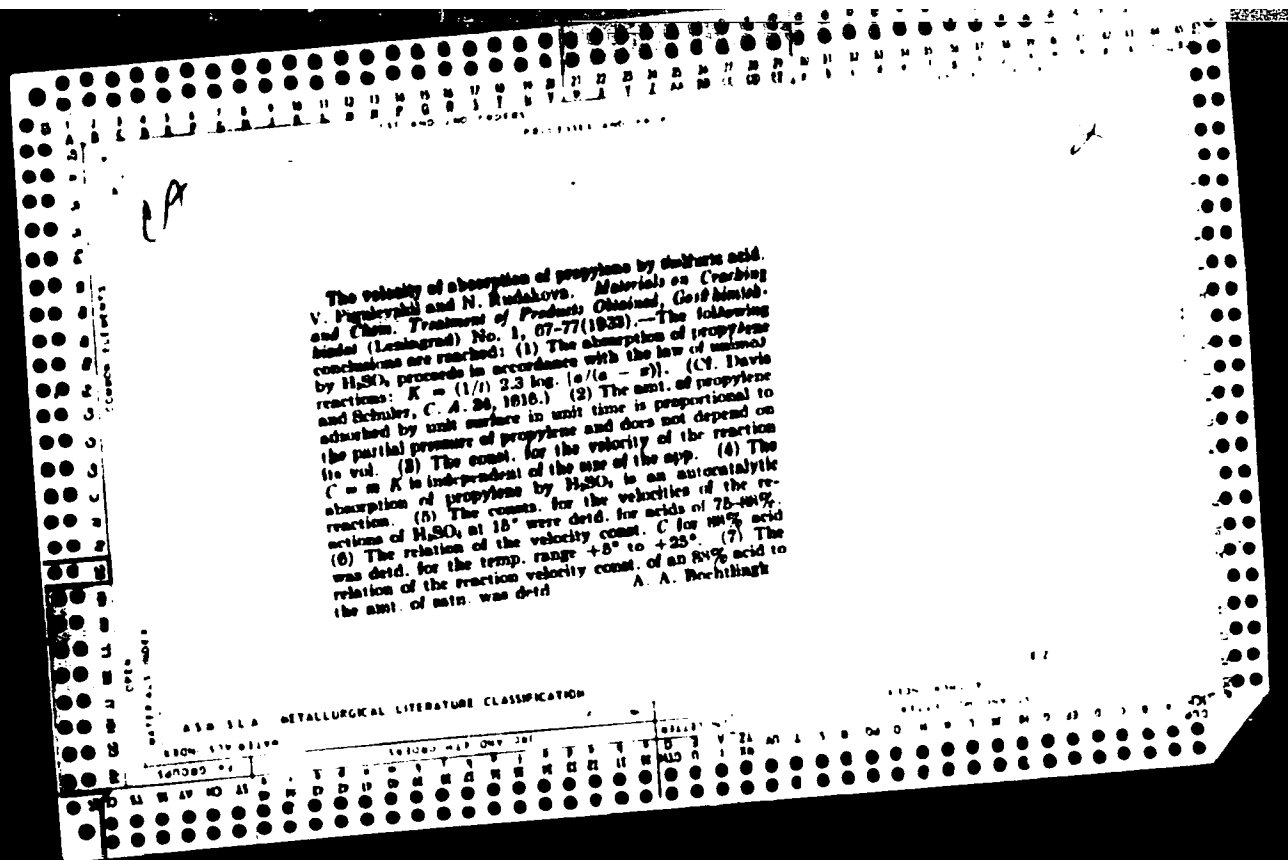


Action of sulfuric acid on the lightest products obtained when cracking petroleum in the vapor phase. II. A. A. PUGACHEVSKIĬ and S. A. NERANSKIĬ. *Vysokomol. Soedin.* 20, 562, 1958 (1958). Butylene concentrate used as the stock for the preparation of butylates was purified by rectifying the so-called amylene liquor or paraffinase by the Markovitch and Pigulevskii method. This concentrate contained about 20-18% isovinyl, 35-40% isobutylene, 35-40% normal butylenes and an admixture of some amylenes and normal butane. The degree of unsaturation determined with bromine water was found to be 60-7%, the initial b. p. -5° to -8° and the end point +1° to +2°. In the treatment of this concentrate with H_2SO_4 , the following three factors were considered: temperature, duration of treatment and the acid concentration. The yield of $Me_2C(OMe)_2$ amounted to 35-40%, the rest being "vinyl concentrate". The latter yielded about 35% of $Me_2C(OMe)_2$ and about 30% polymers called on the

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ADDITIONAL METALLURGICAL LITERATURE CLASSIFICATION

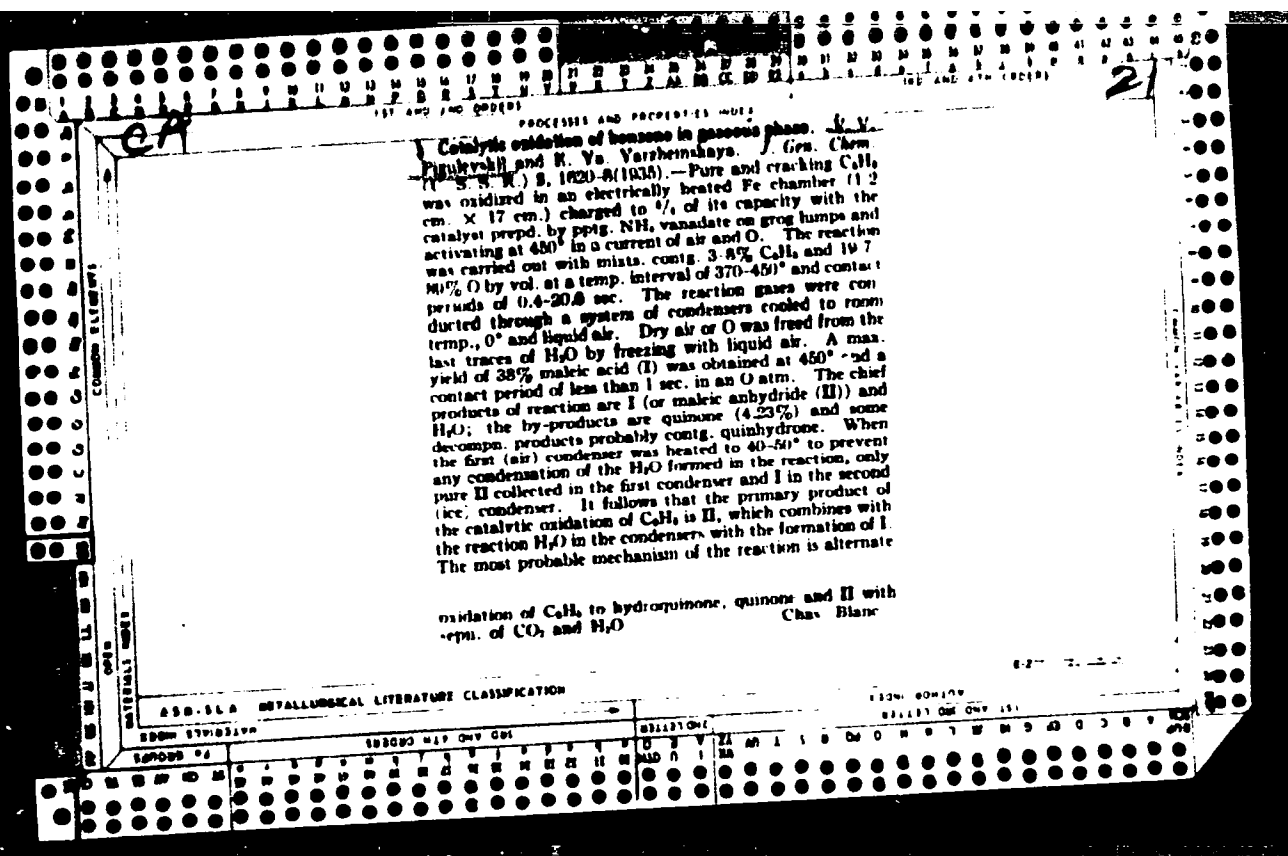




Combined oxidation of unsaturated hydrocarbons and aldehydes. Oxidation of acetone with acetaldehyde or benzaldehyde. V. V. Pivovarov. *J. Gen. Chem.* (U. S. S. R.) 6, 616-21 (1934).—The oxidation of AcH (I) and of BzH (II) by atm. O_2 is inhibited by acetone (III), and diminishes with increasing O_2 concn. The oxidation of III is activated by I or II; in particular, AcOAl (IV) and BzAlH formed as intermediates convert III into acetone oxide. The velocity of oxidation of III by IV is greater than that of I by IV. B C A

ADDITIONAL METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
18										22									
<p>Obtaining alcohols and others from products of the vapor-phase cracking of oil. V. V. Stefanovsky. <i>Trans. Mendeleev Congr. Theoret. Applied Chem.</i> 1932, 2, Pt. 1, 711-15(1935).—The velocity of absorption of propylene by H_2SO_4 was investigated as a typical example of absorption of unsatd. hydrocarbons. The amt. of propylene absorbed by unit surface of acid in unit time is equal in containers of different dimensions if the change of the partial pressure of propylene is equal. With a decrease in concn. of the acid, the velocity const. of the reaction falls abruptly and is higher if the surface of the acid remains undisturbed. The reaction is autocatalytic. Ag salts accelerate considerably the absorption of C_3H_6 and that of propylene much less, in fact, even less than that of butylenes. V, U and W salts act very freely as catalysts. Unsatd. hydrocarbons with a tertiary C atom are absorbed by H_2SO_4 at an accelerated speed. As a result of the reaction, a mixt. of acid sulfates of tartaric acid and free H_2SO_4 is formed. The formation of acetic esters from alcs. and $AcOH$ in the presence of H_2SO_4 gave no pos. results, the use of naphthenesulfonic acids and sulfo aromatic acids as catalysts proved more effective. Esters can also be obtained from acid sulfates of tartaric acids.</p> <p style="text-align: right;">H. F. Stefanovsky</p>																			
<p>ASD-51A METALLURGICAL LITERATURE CLASSIFICATION</p> <p>18000: 17000: 16000: 15000: 14000: 13000: 12000: 11000: 10000: 9000: 8000: 7000: 6000: 5000: 4000: 3000: 2000: 1000: 0000</p>																			



137 AND 138 (20212)		PROCESS AND PROPERTIES INDEX		139 AND 140 (20212)	
<p><i>CO</i></p> <p>Oxidation of unsaturated hydrocarbons. I. Oxidation of cracked gases. V. V. Figulevskii and L. I. Gulyaeva. <i>Trans. Exptl. Research Lab. "Akropgas," Materials on Cracking and Chem. Treatment of Cracking Products</i> (U. S. S. R.) 3, 153-67 (1956).—A cracked gas (unsatd. 40.1, satd. 42.4, CO 0.5, CO₂ 0.7 and H₂ 11.3%) was oxidized with O₂ (using 7-37% by vol. of the latter) at 300-500° and a contact duration of 7-30 sec. The yield of aldehydes increased with the increase of temp., reaching the max. at 410°. As a result of secondary reactions, CO was formed only above 350°, and an O₂ concn. in the gas mixt. of 1.3% and a contact duration of 13 sec. During the oxidation of the cracked gas, a partial polymerization of hydrocarbons proceeded with increase of temp. and O₂ concn. The yield of acids and oxides from the unsatd. hydrocarbons is 6-7 times lower than that of aldehydes. <i>From references.</i> II. Oxidation of ethylene. V. V. Figulevskii. <i>Ibid.</i> 119-73.—The ethylene fraction of the cracked gas (after purification with concd. H₂SO₄, concg. ethylene 50 and satd. hydrocarbons 50%) was oxidized with O₂ under the above conditions. The max. yield of aldehydes and oxides of ethylene was observed at 400°, amounting for ethylene oxide to 8, aldehydes 4-6 and CO 11 l. per 100 l. of ethylene contained in the above</p>					
<p>tractions. <i>Seven references.</i> III. Homogeneous oxidation of propylene. <i>Ibid.</i> V. V. Figulevskii and L. I. Gulyaeva. <i>Ibid.</i> 174-8.—Propylene, obtained from isopropanol by dehydration at 300° over pumice wetted with H₂PO₄, was oxidized as above. The amt. of reacted propylene increased with increase of temp. (to 400°), O₂ concn., and the contact time. The oxide of propylene and CO was obtained by oxidation at 300°, the yield of the former increasing with the increase of the O₂ concn. The yield of aldehydes, oxide of propylene, acids and CO increased with increase of temp. to 400°, but a further increase of the temp. lowered the above yield, which was accompanied by a lowering of the velocity of reaction. The yield of propylene oxide at 400° was 15 and that of aldehydes 35% of the reacted propylene. IV. Catalytic oxidation of propylene. V. V. Figulevskii and E. Ya. Varshanskaya. <i>Ibid.</i> 179-85.—The amt. of oxidized propylene, when carrying out the process in the presence of (NH₄)₂VO catalyst, was proportional to the O₂ content in the gas mixt., an increase of which increased the yield of CO and CO₂. The comparative yield of aldehydes and acids increased with a shortening of the contact duration. A max. yield of these compds. was observed at 400° and a contact time less than 0.5 sec. A partial polymerization of propylene took place at 400°, a contact duration of 5</p>					
<p>ASD-514 METALLURGICAL LITERATURE CLASSIFICATION</p>					
<p>SDM SYNOPTIC</p>					
<p>SDM SYNOPTIC</p>					
<p>SDM SYNOPTIC</p>					

PROCESS AND PROPERTIES INDEX	
<p>22</p> <p>Preparation of isopropyl alcohol from gases of petroleum cracked in the vapor phase. V. V. Pigulevskii and N. V. Rudakova. <i>Trans. Exptl. Research Lab. "Akemgas," Materials on Cracking and Chem. Treatment of Cracking Products</i> (U. S. S. R.) 3, 234 (1938), cf. C. A. 20, 2850. ProOH was prepd. from the propylene fraction of rectified cracked gas and from a raw gas, obtained in the vapor-phase cracking of petroleum at 580-620°, by absorption with 90-95% H₂SO₄ (tech.) at -20° to 40°, and saponification of the reaction product to alc. At room temp., the yield of ProOH was 65% with 90-95% H₂SO₄, and about 85% with 90-95% H₂SO₄. The yield of polymers is lowest at 20° with 90% H₂SO₄. The fraction b. up to 90° (d. 0.830-35) was accepted as ProOH. This fraction contained some SO₂ and Me₂CO. The side reactions of the above synthesis are a polymerization of unsatd. 4-C hydrocarbons and in some cases, even of propylene itself, and the formation of "heavy hydrocarbons" (diisopropyl sulfate). Twenty references. A. A. P.</p>	<p>22</p>
<p>ADD. 1.6 METALLURGICAL LITERATURE CLASSIFICATION</p>	
<p>2200 SYMBOLS</p>	<p>2200 SYMBOLS</p>
<p>2200 SYMBOLS</p>	<p>2200 SYMBOLS</p>

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PROCESSES AND PROPERTIES INDEX

Preparation of isopropyl acetate from isopropylalcohols
acid. V. V. Piskovskii and N. V. Rudakov. Trans.
Exptl. Research Lab. Khimiko, Materials on Cracking and
(Chemical Treatment of Cracking Products) U.S.S.R., 280-9
(1936).--A mixt. (d. 1.3-1.4) of iso-PrSO₃H 50-60, Bu-
SO₃H and H₂SO₄ 5% by wt., free H₂SO₄, and dissolved
polymers obtained during the absorption of propylene
(from the propylene fraction of the cracked gas) with 60%
H₂SO₄ (conc.) was esterified with AcOH at room temp.,
yielding iso-PrOAc. The esterification proceeds to a
great extent at room temp. within 1 hr., even on using 1%
AcOH. On increasing the concn. of iso-PrSO₃H in the
mixt., the consumption of AcOH reaches 67%, yielding
22% of iso-PrOAc (with respect to iso-PrSO₃H), the re-
maining iso-PrSO₃H being exposed to iso-PrOH, while on
using iso-PrSO₃H and AcOH at a mol. ratio of 1:2 the
yield of the ester is 61% (30% with respect to AcOH).
The reaction of the ester must be carried out with a H₂O,
concn. of not over 40%, otherwise the formed ester is
hydrolyzed to alk. It is possible to exp. the main portion
(60%) of the ester formed in the cold by dilg. the reaction
product with ice. The prepn. of the ester from iso-PrOH
is effected best at 110° by adding drop wise a mixt. of
glacial AcOH and H₂SO₄ (d. 1.84), the yield amounting
then to 55%. A. A. Podgorny

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1ST AND 2ND COPY										3RD AND 4TH COPY									
PROCESSING AND PROPERTIES INDEX																			
CA		2																	
<p>The rate of absorption of ethylene by sulfuric acid at an elevated temperature and constant surface absorption. V. V. Pivovarov and B. I. Il'ina. <i>Doklady Akad. Nauk S.S.S.R.</i> 48, 231-2 (1944) (in English). —A manometric method (cf. C.A. 34, 1016) was used to study the absorption of C_2H_4 (at 30-400 mm.) by H_2SO_4 (90 cc) in a cylindrical glass reaction vessel having a diam. of 10 cm., an internal wetted surface of 450 sq. cm. and a vol. of 1000 cc. The vessel was held at $70^\circ \pm 0.5^\circ$ during most of the expts., and rotated through 200° every 30 sec. to wet the walls with acid. At a given degree of acid concn., the rate (K) of C_2H_4 absorption was proportional (1) to the C_2H_4 partial pressure, and (2) to the ratio of magnitude of absorption surface (S) to free vol. (V) of the reaction vessel. The proportionality coeff. (C) in the equation, $K = C(V/S)$, did not depend on the dimensions of the app. The value of $C \times 10^4$ increased from 80.5% to 13.4 as the H_2SO_4 concn. was increased from 80.5% to 90.4%; to 99.4%. The temp. coeff. of C was 1.38 per 10°. The effectivity coeff. (S/V) of the app. increased from 0.41 to 1.74 and 3.34, resp., on placing in the app. 110 and 220 porcelain Ranching rings measuring 15×15 mm. J. W. Perry</p>																			
<p>ASS-15A METALLURGICAL LITERATURE CLASSIFICATION</p>																			
<p>10000 11000 12000 13000 14000 15000 16000 17000 18000 19000</p>										<p>20000 21000 22000 23000 24000 25000 26000 27000 28000 29000</p>									

PIGULEVSKIY, V.V.

USSR

Determination of formaldehyde in mixtures with other aldehydes. M. M. Kozlovskiy and V. V. Pigulevskiy. *Trudy Vsesoyuz. Nauch.-Issledovsk. Inst. Khim. Fiz. i Mekh. Gory (KHIMGAZ)* 6, 221-3 (1951).--The recommended methods for detg. formaldehyde mixed with AcH involve the use of KCN, or a consecutive oxidation with H_2O_2 and $KMnO_4$ in an alk. soln. The formaldehyde detn. in mixts. with other aldehydes was found accurate to within $\pm 2-3\%$. W. M. Sternberg

IGULEVSKIY, V. V.

Formation and dehydration of *tert*-butyl alcohol from cracked gases. V. V. Igulevskiy and M. S. Avetina. *Zhur. Priklad. Khim.* 30, 126-33 (1957); cf. *C.A.* 26, 1460. The synthesis, by the H_2SO_4 method, of *tert*-BuOH (II) from the C_4H_8 -bivinyll fraction of cracked gases and the conditions of its dehydration were investigated. In a series of expts. with synthetic mixts. of bivinyll and iso- C_4H_8 and with different concns. of H_2SO_4 , it was shown that the bivinyll group in such mixts. is stable in 40% H_2SO_4 . Polymerization occurred in 45-60% H_2SO_4 . Isobutylsulfonic acid (II) was prepd. by shaking at room temp. liquefied iso- C_4H_8 and cold (-20°) 40% H_2SO_4 . About 90-100% of iso- C_4H_8 reacted without any polymerization at the high ratio of iso- C_4H_8 to H_2SO_4 used (3.6:1). This indicated that as the reaction progressed II was saponified to form I and H_2SO_4 by direct dehydration. The f.p. diagram of the I-water system passed through 2 min. at -6.5 and -11.5°, corresponding to 25 and 87.8% of I, resp.; between the min. the f.p. was represented by a flat max. at -5°. Dehydration of I and decompn. of II in the presence of 15-40% H_2SO_4 started at 60-5° and passed through a max. at ~80°. At this max. polymerization occurred with 40% H_2SO_4 . The log of the concn. of II was a linear function of the time of decompn. (the same was true of the dehydration of I), i.e. the process was unimol., following the equation $dc/dt = Kc$ ($K \sim 0.014$). The optimum conditions for both processes were 25% H_2SO_4 and a mol. ratio of I or II to H_2SO_4 of 10:1. I obtained from the C_4H_8 -bivinyll fraction (contg. C_4H_8 2, C_4H_6 17-19, iso- C_4H_8 30-35, n- C_4H_8 40-45, C_4H_6 1, $C_4 + > 4$ -6 mol.%) was of sufficient purity for polymerization into polyisobutylene.

I. Benicowitz

all. Thurner, O.
Inst. Syn. Ind. Chem.
in: S.V. Lebedev

FIGULEVSKIY, V.V.; LEONT'YEVA, V.V.

The composition of butylenes obtained by S.V. Lebedev's process.
Zhur.prikl.khim. 30 no.8:1267-1270 Ag '57. (MIRA 11:1)
(Butene)

Handwritten: P. N. 11
MIKHAYLOVA, V.N.; FIGULEVSKIY, V.V.

synthesis of some esters of β -chloropropionic acid. Zhur.prikl.
khim. 30 no.12:1843-1847 D '57. (MIRA 11:1)

1.Leningradskiy institut khimicheskoy fiziki.
(Propionic acid)

FIGULEVSKIY, V.V.; NAZAROVA, S.S.

Density, viscosity, and electric conductivity of products
of interaction between n-butylenes and sulfuric acid. Zhur.
prikl.khim. 35 no.5:1077-1082 My '62. (MIRA 15:5)

1. Leningradskiy institut khimicheskoy tekhnologii.
(Butenes)
(Sulfuric acid)

SIMONOVA, N.I.; PIGULEVSKIY, V.V.

Synthesis of 1-phenyl-3-pyrazolidone (phenidone). Trudy
LIKI no. 5:190-195 '59. (MIRA 13:12)

1. Kafedra obshchey, analiticheskoy i organicheskoy khimii
Leningradskogo instituta kincinshtenerov.
(Photography--Developing and developers)
(Pyrazolidone)

MIKHAYLOVA, V.N.; PIGULEVSKIY, V.V.

Synthesis of 1-phenyl-3-pyrazolidone (phenidone) from the
methyl ester of β -chloropropionic acid. Trudy LKI no. 5:196-
199 '59. (MIRA 13:12)

1. Kafedra obshchey i analiticheskoy khimii Leningradskogo
instituta kinoizhenerov.
(Photography--Developing and developers)
(Propionic acid)

MIKHAYLOVA, V.N.; FIGULEVSKIY, V.V.

Synthesis of 1-phenyl-3-pyrazolidone (phenidone) from esters of
β-chloropropionic acid. Zhur. ob. khim. 28 no.11:3112-3115
N '58. (MIRA 12:1)

1. Leningradskiy institut kinoizhenerov.
(Phenidone) (Propionic acid)

AUTHORS: Simonova, M.I., and Pigulevskiy, V.V. 007, 10-50-6-100, 105

TITLE: A Method of Producing 1-Phenyl-3-Pyrazolidon
(Sposob polucheniya 1-fenil-3-pirazolidona)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 125 (USSR)

ABSTRACT: Class 57b, 13⁰¹. Nr 113570 (581767 of 8 Aug 57). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A method of producing 1-phenyl-3-pyrazolidon by condensing phenylhydrazine with methyl ether monomer of acrylic acid; reducing the possibility of the formation of oxidization products through the effect of air in the process by carrying out the reaction by heating with a reflux condenser for 20 hours in a weakly acidous medium created by phenylhydrazine carbonate.

Card 1/1

AUTHORS: Mikhavlova, V. M., Pigulevskiy, V. V. SOV '72-28-8-56 '66

TITLE: Addition of the Hydrogen Halides to the Esters of α, β -unsaturated Acids (Prisoyedineniye galogenvodorodov kэфирам α, β -nepretel'nykh kislot)

PERIODICAL: Zhurnal obshchey khimii, 1953, Vol. 28, Nr 8, pp. 2265-2267 (USSR)

ABSTRACT: It is known that hydrogen halides affiliate to acrylates and methacrylates to form esters of β -halogen propionic and β -halogen isobutyric acids (Refs 1 - 3). In the work reported in this paper the authors found that in the synthesis of these esters the addition of the hydrogen halide must occur with cooling. The great number of esters of the above acids which are synthesized by various methods have not been carefully observed; their properties have been little investigated, and the possibilities of their practical use have not been developed. β -halogen propionates can be used for the synthesis of 1-phenyl-3-pyrazolidon (Ref 7), which is presently used as a developer in photographic processes. The synthesis of the butyl ester of β -chloro (bromo, iodo) propionic and isobutyric acids as products of the addition of hydrogen halides

Card 1/3

Addition of the Hydrogen Halides to the Esters of
 α, β -Unsaturated Acids

SCN 79-18-8-55/56

to butyl acrylate and butyl methacrylate are described (Table 1). The butyl esters of β -iodopropionic and β -chloro (iodo)-isobutyric acids were synthesized for the first time. All the synthesized butylates are colorless, transparent, and strongly smelling liquids obtainable at room temperature in the absence of light. In order to avoid a decomposition the distillation must be carried out at low pressure, since otherwise the acrylic and methacrylic acids produced polymerize. The simple synthesis described here for these esters can also be used for the esters of β -halogen propionic and β -halogen isobutyric acids.

There are 3 tables and 9 references, 3 of which are Soviet

ASSOCIATION: Leningradskiy institut kinoinzhenerov (Leningrad Institute of Motion-Picture Engineers)

SUBMITTED: June 4, 1957

Card 2/3

Addition of the Hydrogen Halides to the Esters of
 α, β -Unsaturated Acids

SOV/79-28-a-56/62

Card 3/3

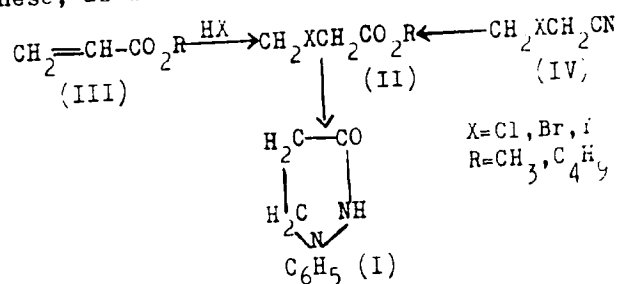
AUTHORS: Mikhaylova, V.N., Pigulevskiy, V.V.

SCV/79-28-11-46, 55

TITLE: On the Synthesis of the 1-Phenyl-3-Pyrazolidone (Phenidone) from β -Chloro Propionates (O sinteze 1-fenil-3-pirazolidona (fenidona) iz efirov β -khlorpropionovoy kisloty)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 3112-3115 (USSR)

ABSTRACT: As the authors reported (Ref 1), the esters of the β -halogen propionic acids (II) can be used as initial products of the synthesis of 1-phenyl-3-pyrazolidone (I). These initial products can be obtained from the appropriate acrylates (III) by the action of halogen hydrazide on these, as well as from the nitriles (IV) of these acids:



Card 1/3

SOV, 79-26-11-46, 55

On the Synthesis of the 1-Phenyl-3^H-Pyrazolidone (Phenidone) From β -Chloro Propionates

The authors synthesized the 1-phenyl-3^H-pyrazolidone (1, from the esters of the β -chloro propionic acid and the nitriles of the β -bromo- and β -iodo propionic acid. At present the 1-phenyl-3^H-pyrazolidone is widely used in cinematography in the place of metol (Refs 2-5). In the testing of the method by Beringer (Beringer-Ref 6) according to which "phenidone" is obtained from phenyl hydrazine and β -halogen propionic acid or their esters, it was observed that the condensation on highly alkaline medium takes place under a resinification, and that the yield of "phenidone" is very small and its separation from the oily reaction product is very difficult. Earlier, the authors had observed no resinification in the condensation of equimolecular amounts of methyl β -chloro propionate with phenyl hydrazine in weakly alkaline medium and in inert gaseous envelope (Ref 9) but had obtained the 1-phenyl-3^H-pyrazolidone in good yield as crystals. It was further observed that the condensation of the methyl and butyl β -chloro propionates with phenyl hydrazine in weakly alkaline medium takes place in two stages: First rather rapidly a formation of hydrogen halide takes place under the formation of the corresponding β -substituted propionates (V) and then the hydrochloric phenyl hydrazine is formed. The second condensation stage

Card 2/3

On the Synthesis of the 1-Phenyl-3-Pyrazolinone Phenidone," From β -Chloro Propionates

SOV, 19-26-11-16, 5.

is then the cyclization of the compound (V) under the formation of (I) (Scheme 2). The phenyl hydrazine salt must be removed prior to the separation of the "phenidone" as it would render this separation very difficult. The table shows that the synthesis of the "phenidone" from the methyl β -chloro propionate takes place more rapidly than that from the butyl ester, and that the yield in the first case is higher than in the second. The nitriles of the β -iodo(bromo)-propionic acid synthesized from acryl nitrile and hydrogen halide were identified and characterized. - There are 1 table and 15 references, 8 of which are Soviet.

ASSOCIATION: Leningradskiy institut kinorizhenerov (Leningrad Institute of Cinematographic Engineers)

SUBMITTED: November 2, 1957

Card 3/3

AUTHORS: Pigulevskiy, V.V., Labutin, A.L.

32-3-3/5

TITLE: A Block Furnace for the Testing of Catalyzers and the Investigation of Catalytic Reactions (Blochnaya pech' dlya ispytaniya katalizatorov i izucheniya kataliticheskikh reaktsiy)

PERIODICAL: Zavodskaya Laboratoriya. 1958, Vol. 24, Nr 3, pp. 358-359 (USSR)

ABSTRACT: A block furnace for the investigation of catalytic dehydration reactions of butane and butylene as well as of the dehydration catalyzers themselves was constructed. The block is of highly refractory aluminum bronze. AS p10 of good thermal conductivity. As is shown by a drawing, the furnace has the usual shape, two channels being provided for the purpose of cooling. Operation in certain gas atmospheres. The furnaces work at temperatures of from 550° to 675° C for up to 10 000 hours without any repair being necessary. The thermoregulator works with an accuracy of up to 3 to 4° C. Selection of the metal for the interior of the surface depends on test conditions. For the aforementioned tests steel of the type X 28 having a chromium content of about 27% was used.

Card 1/2

A Block Furnace for the Testing of Catalyzers
and the Investigation of Catalytic Reactions

30-3-38/30

with success at 550 - 675° C. There are 1 figure, and 2 references,
1 of which is Slavic.

ASSOCIATION: All-Union Scientific Research Institute of Synthetic Rubber imeni
S. V. Lebedev (Vsesoyuznyy nauchno-issledovatel'skiy institut
sinteticheskogo kauchuka im. S.V. Lebedeva)

AVAILABLE: Library of Congress

1. Catalyzers-Test methods
2. Catalytic reactions-Investigations
3. Furnaces-Applications

Card 2/2

MIKHAYLOVA, V.N.; PIGULEVSKIY, V.V.

Addition of hydrohalogens to esters of α, β -unsaturated acids.
Zhur. ob. khim. 28 no. 8:2265-2267 Ag '58. (MIRA 11:10)

1. Leningradskiy institut khimicheskoy fiziki.
(Acids, Organic)

PIGULEVSKIY, V.V.; LABUTIN, A.L.

Block furnace for testing catalysts and study of catalytic
reactions. Zav. lab. 24 no.3:358-359 '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka im. S.V. Lebedeva.
(Electric furnaces) (Catalysts) (Catalysis)

PIGULEVSKIY, V.V.

✓ Composition of butylenes obtained in C. V. Lebedev's process. V. V. Pigulevskii and V. V. Leont'eva, *Zhur. Priklad. Khim.* 30, 1207-70 (1957); cf. *C.A.* 25, 116; 28, 4814. The compn. of tech. γ -butylene, obtained in the synthesis of isobutyl from alca. by Lebedev's process (see *ibid.*) was detd. by fractionation. The distn. curve exhibited an appreciable break at -0.5° , corresponding to the compn. of α -butylene, a sharp rise to the β -butylene fraction at 1° , and a transition in the branch of the latter at 3.6° . The transition was ascribed to the presence of trans (b. 0.0°) and cis isomers (b. 3.6°) in β -butylene. The proportions of β -C₄H₈: α -C₄H₈ = 3.4:1 (70.2 and 20.6%, resp.), 3.7% isobutylene, and 2.1% n-butane. The presence of the former was ascribed to the isomerization of α - and β -isomers, whereas butane was formed by the hydrogenation of butylene. I. Benicowitz

5
2 MAY
2 4E4
2 4E2Gf

1. The first part of the document is a list of the names of the individuals who were involved in the project. The names are listed in alphabetical order. The names are: [illegible]

FIGULEVSKIY, Ye. D. Cand Tech Sci -- (diss) "Study of ~~the~~ supersonic "vision"
~~during transformation~~ by the ~~method~~ convex-relief method." Len, 1957. 12 pp
(Min of Higher Education USSR. Len Electrical Engineering Inst im V. I. Ul'yanov
(Lenin)), 100 copies (KL, 3-58, 97)

SOV/46-4-4-8/20

AUTHOR: Pigulevskiy, Ye.D.

TITLE: On the Sensitivity and Resolving Power of Acoustico-Optical Conversion on the Surface of a Liquid (O chuvstvitel'nosti i razreshayushchey sposobnosti akustiko-opticheskogo preobrazovaniya na poverkhnosti zhidkosti)

PERIODICAL: Akusticheskiy Zhurnal, 1968, Vol 4, Nr 4, pp 348-354 (USSR)

ABSTRACT: Ultrasonic beams are used to study internal inhomogeneities of opaque media. An essential part of any apparatus for visualization of ultrasonic images is an acoustico-optical converter. Acoustico-optical conversion on the surface of a liquid, based on the deformation by constant acoustic pressure of a free surface of a liquid or of a boundary between two immiscible liquids, was proposed by Sokolov in 1936 (Ref 1). The liquid surface relief can be visualized optically since it is simply an assembly of curved mirrors. The optical part of the system records deviations of parallel rays of light by various parts of the liquid surface. Fig 1 shows the optical arrangement used to study the liquid surface relief. Experiments on the sensitivity of the acoustico-optical conversion (defined as the smallest intensity of

Card 1/4

SOV/46-4-4-8/20

On the Sensitivity and Resolving Power of Acoustico-Optical Conversion on the Surface of a Liquid

the acoustic field which can be detected after conversion) were carried out by the author in the Acoustics Laboratory of the Leningrad Electrotechnical Institute imeni Lenin. The author found that the sensitivity of conversion is determined by the radii of curvature of the liquid surface relief and not by the absolute values of depth. The largest radius of curvature which can be detected depends on the optical part of the conversion apparatus. The sensitivity of conversion, which is given by the reciprocal of the radius of curvature of the surface relief, is found to be inversely proportional to the value of the surface tension and density of the liquid. At high ultrasonic frequencies (above 10 Mc/s) the surface tension forces predominate, while below 0.5 Mc/s it is the gravitational forces that are decisive. The resolving power of the acoustico-optical conversion was studied both on liquid and on solid surfaces. A pattern consisting of two parallel bands (called a "double slit") was used as the test object. The resolving power in observation of internal inhomogeneities of liquids was determined by the diffraction distribution in the ultrasonic image and does not depend on the properties of the acoustico-optical conversion system. The smallest distance that can be resolved acoustically is:

Card 2/4

SOV/46-4-4-8/20

On the Sensitivity and Resolving Power of Acoustico-Optical Conversion on the Surface of a Liquid

in the case of a "double slit", given by $d = \lambda/1.65A$ where A is the ultrasonic aperture. Figs 3, 4 and 5 show some of the results obtained using various conditions and patterns. In transmission of ultrasonic beams by plane-parallel plates it was found that the resolving power decreased due to multiple internal reflections of ultrasound, as shown in Fig 6. Figs 7-9 show longitudinal cross-sections of ultrasonic beams passing through plane-parallel plates with internal defects. The effect of multiple reflections in plane-parallel plates may be minimized by increasing the ultrasonic frequency or by deposition of acoustic anti-reflection films on the plate faces. Studies of the acoustico-optical conversion carried out in the Acoustics Laboratory of the Leningrad Electrotechnical Institute under the direction of S. Ya. Sokolov, Corresponding Member of the Academy of Sciences of the U.S.S.R., led to development of a new method of control of the quality of metal sheets. There are 9 figures and 5 references, 2 of which are

Card 3/4

SOV/46-4-4-8/20
On the Sensitivity and Resolving Power of Acoustico-Optical Conversion on the
Surface of a Liquid

Soviet, 1 American, 1 German and 1 translation.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V.I. Ul'yanova (Lenina)
(Leningrad Electrotechnical Institute imeni V.I. Ul'yanov (Lenin, /

SUBMITTED: August 30, 1957

Card 4/4

PHASE I BOOK EXPLOITATION

SOV/5300

Pigulevskiy, Yevgeniy Dmitriyevich

~~Ul'trazvukovaya mikroskopiya~~, stenogramma lektzii (Ultrasonic Microscopy; Verbatim Report of a Lecture) Leningrad, 1959. 23 p. (Series: Lenin-gradskiy dom nauchno-tekhnicheskoy propagandy. Seriya: Kontrol' kachestva produktsii) 6, 500 copies printed.

Sponsoring Agency: Obschestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Ed.: A.K. Gurvich, Engineer. Tech. Ed.: V.L. Gvirtz.

PURPOSE: This booklet is intended to acquaint workers in industry with the physical principles underlying the application of ultrasound rays to "see" into opaque media, and with certain concrete methods of ultrasound microscopy.

Card 1/2₂

Ultrasonic Microscopy; (Cont.)

SOV/5300

COVERAGE: The author acquaints the reader with the practical application of ultrasound. He briefly traces the history of ultrasound microscopy, underlining the importance of this technique in the study of opaque materials. He discusses a number of design principles and some possible designs for ultrasound microscopes used for defectoscopy and for the control of the thickness and uniformity of coverings and coatings of metal parts. The text is illustrated by seven conceptual diagrams of design principles and the equipment designs discussed, two photographs of defectograms, and three photos of actual instruments. There is no table of contents. No personalities are mentioned. There are 12 references: 11 Soviet and 1 German.

TABLE OF CONTENTS (Compiled From Section Headings):

Introduction

3

Card 2/0 2

VOYTSEKHOVSKAYA, I.A.; GRAMMAKOV, A.G., prof.; YERMOLOVA, A.P.;
LYATKOVSKAYA, N.M.; MALYSHEVA, T.D.; ORLOV, V.M.;
FIGULEVSKIY, Ye.D.; VASILEVSKAYA, V.N., tekhn. red.

[Exercises in physics] Posobie k uprazhneniam po fizike.
Leningrad, Leningr. elektrotekhn. in-t im. V.I.Ul'ianova
(Lenina). Part 3. [Optics, atomic physics] Optika, atom-
naya fizika. 1962. 197 p. (MIRA 16:12)
(Physics—Problems, exercises, etc.)

43208

S/046/62/008/004/C14/017
B106/B186

AUTHORS: Moskovenko, I. V., Figulevskiy, Ye. D., Semenova, N. S.

TITLE: Electrification of suspensions of colloid particles in an ultrasonic field

PERIODICAL: Akusticheskiy zhurnal, v. 8, no. 4, 1962, 475-480

TEXT: Particles suspended in nonconductive liquids were found to acquire a negative electrical charge when an ultrasonic field acts upon them. The effective charge of the particles was determined by measuring their electrophoretic mobility in an Abramson-Dofman microchamber with a 40-kc/s ultrasonic generator. The power of the latter was limited by the cavitation depending on the viscosity of the liquid. Cavitation obviously promotes the destruction of the diffusion layer between the suspended colloid particles. Ultrasound without cavitation will only deform this layer, thus giving the particles an effective charge. There are 2 figures. The English-language reference is: I. I. Hermans. Charged colloid particles in ultrasonic field. Phil. Mag., 1938, 257, 426-438; 1938, 267, 674-683.

Card 1/2

Electrification of suspensions of...

S/045/62/005/004/014,017
B108, B186

ASSOCIATION: Leningradskiy Elektrotekhnicheskiy Institut im. V. I. IL'INA, N. V.
(Leningrad) (Leningrad Electrotechnical Institute named
V. I. Vilyayev (Lenin))

SUBMITTED: March 11, 1961

Card 2/2

PIGULEVSKIY, Ye.D.; SAZONOV, A.M.

Resonance absorption of ultrasound in NaCl crystals. Akust.
zhur. 9 no.2:245 '63. (MIRA 16:4)

1. Leningradskiy elektrotekhnicheskiy institut imeni V. I.
Ul'yanova (Lenina).
(Absorption of sound)
(Nuclear magnetic resonance and relaxation)

7448-74, K.V., PLEKHIN V, I.G.; PLEKHIN, Y.G.

Attenuation of surface waves in a plate with free boundaries.
Akust. zhur. 10 n. 3:153-160 1964. (MIRA 1966)

1. Leningradskiy elektrotekhnicheskiy institut imeni V.I.
Ul'yanova (Leningrad).

PIGULOVSKIY, N.A.

Potato loading machine. Kons. 1 ov. prom. 13 no.10:42-43 0 '58.
(MIRA 11:10)

1.Nach. konstruktorskogo byuro Belorusskogo nauchno-issledovatel'skogo
instituta pishchevoy promyshlennosti.
(Potatoes) (Loading and unloading)

PIGULOVICH, Ye.V.

Portable equipment for the loading of rods into a rod mill. TSvet.
met. 36 no.1:76-77 Ja '63. (MIRA 16:5)
(Crushing machinery)

MAN'KOVSKAYA, N.K.; ZHURBA, A.S.; GRUSHEVENKO, V.I.; TRIANDAFILIDI, I.G.;
STERKHOVA, L.N.; FIGUL'SKAYA, R.I.; MITEL'MAN, B.Yu.

Chemical changes in synthetic fatty acids during the rectification
process under plant conditions. Khim. i tekhn. topl. i masel 10
no.2:24-27 F '65. (MIRA 18:8)

1. UkrNIIGIPRONEFT'.

FIGURNOV, A., general-leutenant zapasa

In the last months of the war. Komm. Vooruzh. Sil 46 no. 2: 50-56 My
'65. (MIRA 18:7)

GLAVINSKIY, David Germanovich; DENSHCHIKOV, Mikhail Tikhonovich;
FIGUZOV, A.T., inzh., retsenzent; FEL'DMAN, M.S., inzh.,
retsenzent; POPOV, V.I., prof., spets. red.; KOVALEVSKAYA,
A.I., red.; SOKOLOVA, I.A., tekhn. red.

[Mechanization and automation in the brewing industry] Me-
khanizatsiia i avtomatizatsiia pivovarennogo proizvodstva.
Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 419 p.
(MIRA 17:4)

CIA-RDP86-00513R0012408

ACC NR: AP7005427

SOURCE CODE: UR/0065/65/000/010/0032/0034

PIGUSOVA, L. I., NIKOLINA, V. YA., DUBININ, M. M. and SHISHAKOVA, T. N.,
VNII NP

"Acid-Resistance of Synthetic Zeolite, Erionite"

Moscow, Khimiya i Tekhnologiya Topliv i Masel, No 10, 1965, pp 32-34

Abstract: Synthetic erionite, one of the new native zeolites, has the composition $0.5K_2O \cdot 0.4Na_2O \cdot Al_2O_3 \cdot 6.6SiO_2 \cdot 5.5H_2O$. It was treated with a hydrochloric acid solution of varying composition at 96-98°C for an hour. Degree of decomposition was found according to the analysis of the filtrate. After treatment with the acid the zeolite, previously washed from the reaction products (NaCl and KCl) and acid residues was tested for change in water adsorption capacity and its capacity to adsorb a mixture of nitrous gases of $NO_2-N_2O_4$. The data indicated that the zeolite structure can be maintained under severe conditions such as when the pH of the hydrochloric acid is about 2.1-2.4.

Changes in the crystal lattice even when treated with 0.1 N hydrochloric acid could not be detected by x-ray analysis. The water adsorption capacities of zeolites before and after treatment were changed little. Consequently the exchange of Na and K cations by H cations occurs without significant disturbance of the crystals.

Card 1/2

UDC: 543:544

0926 2297

ACC NR: AP7005427

Synthetic zeolites in the H-form were studied under stationary conditions in the adsorption-desorption of $\text{NO}_2\text{-N}_2\text{O}_4$ gas. The tests were conducted in the Kazan Chemico-Technological Institute imeni S. M. Kirov by E. B. Krasnyy and T. G. Musinyy according to a method developed by them. In comparison with silica gel No. 6 erionite has substantial advantage in its considerable larger adsorption capacity at low concentrations.

Conducted tests showed very small quantities of adsorbed benzene on synthetic erionite which attests to the fact that the effective size of its pores are about 5 angstroms. Hexagonal synthetic erionite is stable in hydrochloric acid with a pH of about 2.5. No changes in its structure were observable after numerous adsorption-desorption of the nitrous gases. Orig. art. has:

5 figures and 1 table. [JPRS: 38,970]

TOPIC TAGS: zeolite, nitrogen oxide, silica gel, crystal lattice structure

SUB CODE: 07,20 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 005

1 Card 2/2

PIJADE, Rafael

Recurrent appearance of pulmonary echinococcosis. Srpski arh.
celok. lek. 87 no.12:1175-1179 D '59.

1. Rendgenolosko odeljenje Vojne bolnice u Skoplju, Nacelnik:
ppuk. dr Rafael Pijade.

(LUNG DISEASES surg.)

(ECHINOCOCCOSIS surg.)

PIJADE, Rafael

A rare localization of echinococcal cyst. Srpski arh. celok.
lek. 88 no.1:95-98 Ja '60.

1. Rendgenolosko odeljenje Vojne bolnice u Skoplju, Nacelnik:
ppuk. dr Rafael Pijade.

(ECHINOCOCCOSIS radiogr.)

(DIAPHRAGM dis.)

Piguta, D.B.
FIGUTA, D.B.

Objections to V.A.Gorbov's review of D.B.Piguta's book "Sanitary improvement of inhabited communities." Gig. i sn. 22 no.11:69-73 N '57. (MIRA 11:1)
(PUBLIC HEALTH, RURAL) (GORBOV, V.A.)

Piguzov, Yu. V.

The investigation of the mechanism of the influence of boron on steels by an internal friction method. M. V. Fridantev, O. N. Afshcherikova, and Yu. V. Piguzov. Doklady Akad. Nauk S.S.S.R. 111, 93-101 (1956).—Steel was prepd. with 0.000, 0.004, 0.008, and 0.008% B (analyses presented also for C, Mn, Cr, Si, P, S, and Ni), and the curves are presented for the internal friction Q as a function of the various B contents, after annealing at 900° and preliminary heating to 700, 750, and 800°; the Q values would always show 2 max. at 30 and 540°, but the curves for the modulus of shear, of samples which contain B, show a steeper drop at higher preliminary heating temps. than the curves for the sample without B. Werner Jacobson.

5
4E2c
7E4j

11/ 12

PIGUTA, D.

PA 26/49T67

USSR/Medicine - Epidemiology
Medicine - Literature, Medical

Jul 48

"Review of Professors L. V. Gromashevskiy and
G. M. Vaynirakha's Book, 'Local Epidemiology,'"
D. Piguta, 1 $\frac{1}{2}$ pp

"Gig i San" No 7

Unfavorable review of book, published by
Medgiz, Moscow, 1947. Considers it unfit for
a manual.

FDB

26/49T67

PIGUTA, D.B.

[Establishing sanitary conditions in inhabited places] Sanitarnaia
ochistka naselennykh mest. Moskva, Medgiz, 1955. 251 p.
(SANITATION) (MLBA 8:11)

of gasoline, 30.7% of residuum above 600° F., which benzene and gas-oil fractions were used in recycling. The aniline point of the bergasine gas oil was 80.7°, once-through cracked gasoline, 50.4°, twice-through, 46.4°. Three times through, 40.0°, four times, 23.5°, and five times, below 20°. The numbers were three times, 40.0, 47.7, 42.9, 18.0. The gases were composed after a once-through operation C₁H₄, 81.9, 60.0, 47.7, 42.9, 18.0. The gases were composed after a once-through operation C₁H₄, 81.9, 60.0, 47.7, 42.9, 18.0. The gases were composed after a once-through operation C₁H₄, 81.9, 60.0, 47.7, 42.9, 18.0. The gases were composed after a once-through operation C₁H₄, 81.9, 60.0, 47.7, 42.9, 18.0.

CIA-RDP86-00513R0012408

25

The theory of dyeing silk with substantive dyes. M. V. Kozhagin, E. A. Pigurova and A. P. Semerechkina. *Shest* 10, No. 3-4, 24-6(1940); *Chem. Zentr.* 1940, II, 2818; cf. C. A. 36, 6362.—Expts. on deaminizing silk are reported. The silk was treated for 4 hrs. at ordinary temps. with a mist. of: AcOH 10, acid. Na acetate soln. 10 ml. and nitrite 2 g. in 30 ml. of H₂O. This mist. was used per g. of fiber. After the treatment, the silk was carefully washed. Samples of the deaminized silk were dyed with Direct Pure Blue and Direct Violet O in the presence of NH₄Cl. The limit of adsorption of Direct Pure Blue by the treated silk was 0.016 g.-equiv. per 100 g. of silk, for Direct Violet O it was 0.016 g.-equiv. The limit of adsorption of deaminized tussah silk is 0.025 g.-equiv. per 100 g. of silk lower than of untreated silk. The lowered adsorption points to the importance of the amino group in fixing the dye. This is in accordance with the chem. theory of the mechanism of fixing substantive dyes by silk, and of the salt-like reaction between the dye and the fiber. M. Hoach

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Dyeing silk with substantive dyes. M. V. Korchagin, H. A. Figueira and A. V. Semochkina. *Saika* 10, No. 2, 20-2(1940); *Chem. Zentr.* 1940, II, 1780.—The absorption capacity of cultivated silk for Direct Pure Blue is 0.022 and for Direct Violet 0.023 g. equiv. per 100 g. of silk. These values are in good agreement with the absorption Filkentscher and Porai-Koshitz theory on the absorption limits of acids, acid dyes and substantive dyes. The absorption limits of tussah silk are 1.5 times those of cultivated silk. M. Hosh

FIGUZOV, Yu. V.,

"Effect of Chromium on the Elastic Properties and Internal Friction of Ferrite."
(Dissertation for Degree of Candidate of Technical Sciences.) Min Higher Education
USSR, Moscow Order of Labor Red Banner Inst of Steel imeni I. V. Stalin, Moscow, 1955

SO: M-1036 28 Mar 56

Piguzov, Yu. V.

8888* (Russian) Study of the Mechanism of Bore Effect
by the Internal Friction Method. Izucheniye mekhanizma
vzrastaniya bora metodom vnutrennego treniya. M. V. Fridant-
skiy, O. N. Meshcherinova, and Yu. V. Piguzov. Doklady Akad.
nauk SSSR, v. 111, Nov. 1968, p. 98-101.
Impact ductility of technically pure Fe with and without B.
Temperature dependence of internal friction after preheating
with various B contents.

111 - NO. 1 - 98-101 NY-D 56

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AUTHOR
TITLE

FIGUZOV, YU.V.

An Investigation of the internal Friction in the γ - and α -phases of high Chromium Steel (Izucheniye vnutrennego treniya v γ - i α -faskh vysokokhromistoy stali).

PERIODICAL

Doklady Akademii Nauk SSSR, 1957, Vol 112, Nr 4, pp 636-639 (U.S.S.R.)
Received 4/1957

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ABSTRACT

The investigation of a steel in which both austenite and ferrite can be obtained would be interesting and so would be the investigation of the $\gamma \rightarrow \alpha$ -transformation occurring in this steel by the method of internal friction. For this purpose the specially produced steel 105 KH 12 (chemical composition in %: C 1,05; Cr 11,90; N 0,012) was used. The castings weighing 30 kg were forged into rods, annealed in the vacuum; and then cold-drawn into a wire of 0,7 mm. Measurements were carried out by means of the vacuum-torsion-pendulum RKF-MIS in a vacuum of $\sim 10^{-4}$ torr at frequencies of 0,4 and 1,4 c. A diagram shows the temperature-dependence of the internal friction of the samples chilled in water at various temperatures. The curves of temperature-dependence of the internal friction of the samples chilled from 800 - 1020° at a frequency of $\sim 1,4$ c have a peak at $\sim 210^\circ$. The height of the peak grows with increasing chilling-temperature. On the occasion of chilling at at least 1160° (up to melting temperature) the peak completely vanishes at $\sim 210^\circ$ and at approximately 280° a new peak appears the height of which practically does not depend on chilling-temperature. The amount of

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An Investigation of the internal Friction in the γ - and α -phases of high Chromium Steel.

the inner background is here much smaller than in the case of the first measuring-series. The curve of the samples chilled from 1130° has two maxima at ~210° and ~280°. Radiographic and microstructure investigations show that chilling leads to different phase-states. A table contains the lattice-parameters and the structure-phase-components of the samples with different temperatures.

The peak at approximately 210° is due to the interaction between the carbon-atoms and the defects caused by elastic stresses in the martensite-lattice. The higher the chilling-temperature the greater the micro-stresses in the lattice.

The author considers the solution of carbides to be a decisive factor in the case of an increase of the peak, which is indicated by the modification of the inner background. The peak at ~280° is due to the diffusion of the carbon-atoms embossed in the γ -iron and has only one relaxation-time. Position and height of this peak do not change in the case of gradual tempering up to 500° temperature after a modification of 100° in each case. (4 illustrations)

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An Investigation of the internal Friction in the β - and α -phases
of high Chromium Steel.

ASSOCIATION Moscow Institute for Steel "J.V.STALIN"
PRESENTED BY G.V.KUDRYUMOV, member of the Academy, on 4. 7. 1956
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Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 333 (USSR)

AUTHORS: Piguzov, Yu. V., Finkel'shteyn, B. N.

TITLE: Moduli of Elasticity in the Fe-Cr System as a Function of Concentration (Kontsentratsionnaya zavisimost' moduley uprugosti v sisteme zhelezo-khrom)

PERIODICAL: Sb. Mosk. in-t stali, 1957, Vol 36, pp 168-175

ABSTRACT: E and G measurements were performed on eight types of Fe-Cr alloys containing 0.85, 1.8, 3.72, 4.7, 6.76, and 14% of Cr, respectively. The moduli were calculated from the resonant frequencies of longitudinal and torsional oscillations generated by electromagnetic means in cylindrical specimens. Vacuum-smelted alloys were forged into rods 8 mm in diameter at a temperature of 1100°C; the rods were then drawn out, in conjunction with process-annealing operations carried out under vacuum, to a diameter of 6 mm. The specimens were subjected to following heat-treatment procedures: tempering at a temperature of 900° for a period of one hour; quenching in water at 940°; annealing for a period of two hours at a temperature of 550° followed by another two-hour anneal period at 700°. It was

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Moduli of Elasticity in the Fe-Cr System as a Function of Concentration

established that at increasing concentrations of Cr, the values of E and G increase somewhat, while the Poisson ratio is reduced. The critical Debye temperature, θ_D , was computed on the basis of the propagation velocities of longitudinal and transverse waves. It was found that the θ_D increases with increasing Cr content, which indicates a strengthening of the interatomic bonds. The results obtained coincide qualitatively with the values of θ_D (obtained by X-ray methods) as found in literature. Heat-treatment procedures have very little effect on the values of E , G , and θ_D .

1. Iron-chromium systems--Elasticity 2. Iron-chromium systems--Tem- A. F.
perature factors 3. Iron-chromium systems--Mechanical properties 4. Iron-
chromium systems--Test results

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SOV-3-58-9-25/36

AUTHOR: Piguzov, Yu.V., Candidate of Technical Sciences, Moscow Institute of Steel imeni I.V. S'alin

TITLE: Relaxation Phenomena in Pure Metals and Alloys (Relaksatsionnyye yavleniya v chistykh metallakh i splavakh)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 9, pp 72-73 (USSR)

ABSTRACT: From 2-4 April 1958, an Intervuz Conference on the "Relaxation Phenomena of Pure Metals and Alloys" took place at the Moskovskiy institut stali (Moscow Institute of Steel). The conference was attended by 196 representatives of 24 higher educational institutions and 31 scientific-research institutes (including 8 institutes of the USSR AS), from 13 cities of the Soviet Union. Doctor K. Mishek of the Prague Institute of Technical Physics and Den Ge Sen of the Pyongyang State University were also present. S.I. Filippov, Deputy Director of the Institute of Steel, opened the conference. A reviewing report was delivered by B.N. Pinkel'shteyn [Finkelstein (Moscow Institute of Steel)]. V.T. Shmatov (Institute of Physics of the USSR AS in Sverdlovsk) and N.S. Pastov (Tsentrallyy nauchno-issledovatel'skiy institut chernoy metallurgii (TsNIChM) Central Scientific-Research Institute of Ferrous Metallurgy)

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Relaxation Phenomena in Pure Metals and Alloys

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gave information on the application of the thermodynamics of non-balanced conditions. V.S. Postnikov (Kemerovskiy pedagogicheskiy institut - Kemerovo Pedagogical Institute) dealt in his report with questions of the internal friction of plastic deformed metals and alloys under increased temperatures. G.S. Pisarenko and V.V. Khil'chevskiy (Kiyev Polytechnic Institute and Institute of Metallo-Ceramics and Special Alloys UkrSSR AS) told the conference about a method of experimental examination of the energy dissipation in materials. A.A. Sazonova and K.F. Starodubov (Dnepropetrovsk Metallurgical Institute) reported on studies into the influence of annealing temperature after hardening, and isothermic hardening during the subsiding of oscillations in silicon spring steel. The report of M.F. Alekseyenko, Yu.V. Piguzov and L.S. Fedotova (Moscow Institute of Steel and the All-Union Institute of Aircraft Materials) was dedicated to the annealing friability of high-chromium steels and its influence on internal friction. S.N. Polyakov (Institute of Ferrous Metallurgy UkrSSR AS) spoke on the influence of manganese and molybdenum on the solubility of carbon in alpha-iron and on the kinetics of the separation of carbon, by internal friction, from a solid solution containing

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